

**2009**

**Virginia Department of Transportation  
Daily Traffic Volume Estimates  
Including Vehicle Classification Estimates**

where available

**Special Locality Report**

**154**

Town of Christiansburg

Information in this report is included in Report

**60**

(Montgomery County)

Prepared By

**Virginia Department of Transportation  
Traffic Engineering Division**

In Cooperation With

**U.S. Department of Transportation  
Federal Highway Administration**

Virginia Department of Transportation  
Traffic Engineering Division  
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled “Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes” includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled “Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99”.

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people of the VDOT Traffic Engineering Division Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

## Publication Notes

### Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

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VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT Traffic Engineering Division Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

**Route:** The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

**Length:** Length of the traffic segment in miles.

**AADT:** Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

**QA: Quality of AADT:**

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

**4Tire:** Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

**Bus:** Percentage of the traffic volume made up of busses.

**2Axle Truck:** Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

**3+Axle Truck:** Percentage of the traffic volume made up of single unit trucks with three or more axles.

**1Trail Truck:** Percentage of the traffic volume made up of units with a single trailer.

**2Trail Truck:** Percentage of the traffic volume made up of units with more than one trailer.

**QC: Quality of Classification Data:**

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

**K Factor:** The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

**QK:** Quality of the K Factor estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Design Hour Factor (K Factor) of Similar Neighboring Traffic Link
- O Provided by External Source

**Dir Factor:** The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

**AAWDT:** Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

**QW:** Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

**Year:** Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

# Route Shield Legend

## Route Systems



Interstate Route

Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.



US Route



Virginia State Route



Frontage Road (F precedes frontage route number)



Secondary Route

## Special Routes



Bus - Business Route

Bypas - Bypass Route

Truck - Truck Route



ALT - Alternate Route

Wve - Wve Route connector



P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.



The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation  
Traffic Engineering Division  
2009  
Annual Average Daily Traffic Volume Estimates By Section of Route  
Town of Christiansburg

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	Truck				QC	K Factor	QK	Dir Factor	AAWDT	QW	
							2Axle	3+Axle	1Trail	2Trail							
8	W Main St	From: SCL Christiansburg Near I-81 Town of Christiansburg (Maint: 60)	0.22	14000	G	96%	1%	1%	1%	1%	0%	F	0.103	F	0.558	15000	G
8	W Main St	To: Old SCL Christiansburg Town of Christiansburg	0.77	12000	G	96%	1%	1%	1%	1%	0%	C	0.092	F	0.607	13000	G
11	Radford St	To: US 11; Radford St From: WCL Christiansburg Town of Christiansburg	1.40	10000	G	97%	0%	1%	1%	0%	0%	C	0.102	F	0.521	11000	G
11	W Main St	To: SR 8 W Main St From: SR 8, Radford St Town of Christiansburg	0.30	5300	G	97%	0%	1%	1%	0%	0%	F	0.089	F	0.502	5700	G
11	Bus 460 E Main St	To: Bus US 460 S Franklin St From: Town of Christiansburg	0.12	7900	G	97%	0%	1%	1%	0%	0%	F	0.084	F	0.601	8500	G
11	Bus 460 Roanoke St	To: Roanoke St From: E Main St Town of Christiansburg	0.11	11000	G	97%	0%	1%	1%	0%	0%	F	0.087	F	0.517	11000	G
11	Bus 460 Roanoke St	To: Craig St From: Town of Christiansburg	0.98	11000	G	97%	0%	1%	1%	0%	0%	F	0.099	F	0.561	12000	G
11	Bus 460 Roanoke St	To: SR 111 Depot St From: Town of Christiansburg	0.86	15000	G	98%	0%	1%	0%	1%	0%	C	0.103	F	0.604	16000	G
11	Roanoke St	To: US 460 From: Town of Christiansburg (Maint: 60)	1.15	16000	G	96%	1%	1%	1%	1%	0%	C	0.09	F	0.511	17000	G
11	460 Roanoke St	To: I-81 From: Town of Christiansburg (Maint: 60)	0.09	8300	N	96%	1%	1%	1%	1%	0%	N	0.099	N	0.541	9000	N
11	460 Roanoke St	To: Tower Rd, Hampton Rd From: Town of Christiansburg	2.01	8300	G	96%	1%	1%	1%	1%	0%	F	0.099	F	0.541	9000	G
North 81		To: ECL Christiansburg From: SCL Christiansburg Town of Christiansburg (Maint: 60)	3.90	23000	G	69%	1%	1%	0%	27%	2%	F	NA			360	G
		Combined Traffic Estimates for 2 Parallel Roadways on this Route:		46000	G	73%	1%	1%	1%	23%	2%	F	NA			20000	G
North 81		To: US 11, US 460 From: Town of Christiansburg (Maint: 60)	0.77	23000	A	75%	1%	1%	1%	21%	1%	C	0.109	A		23000	A
		Combined Traffic Estimates for 2 Parallel Roadways on this Route:		46000	A	76%	1%	1%	1%	20%	1%	C	NA			45000	A
South 81		To: NCL Christiansburg From: SCL Christiansburg Town of Christiansburg (Maint: 60)	4.27	23000	G	76%	1%	1%	1%	20%	2%	F	NA			20000	G
		Combined Traffic Estimates for 2 Parallel Roadways on this Route:		46000	G	73%	1%	1%	1%	23%	2%	F	NA			20000	G
		To: US 11, US 460															

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							2Axle	3+Axle	1Trail	2Trail						
South 81	From: US 11, US 460 Town of Christiansburg (Maint: 60) Combined Traffic Estimates for 2 Parallel Roadways on this Route: To: NCL Christiansburg	0.34	23000	A	77%	1%	1%	1%	19%	1%	C	0.111	A	22000	A	
111 Cambria St	From: US 460 Town of Christiansburg To: Ellett Rd	0.79	6700	G	96%	1%	1%	2%	1%	0%	C	0.105	F	0.606	7300	G
111 Cambria St	From: Depot St Town of Christiansburg To: Cambria St	0.39	6200	G	97%	1%	1%	1%	0%	0%	C	0.114	F	0.556	6700	G
111 Depot St	From: Park St Town of Christiansburg To: US 11 Roanoke St	0.97	4300	G	97%	1%	1%	1%	1%	0%	F	0.104	F	0.539	4600	G
111 Depot St	From: WCL Christiansburg Town of Christiansburg To: Somerset St	0.91	13000	G	98%	0%	1%	1%	1%	0%	C	0.096	F	0.577	14000	G
114 Peppers Ferry Rd	From: Bus US 460 Town of Christiansburg To: US 460	0.53	16000	F	98%	0%	0%	1%	1%	0%	C	0.100	F	0.583	18000	F
114 Peppers Ferry Rd	From: US 460 Town of Christiansburg To: I-81	0.63	13000	G	97%	0%	1%	1%	1%	0%	C	0.096	F	0.517	14000	G
460 11 Roanoke St	From: Tower Rd, Hampton Rd Town of Christiansburg (Maint: 60) To: ECL Christiansburg	0.09	8300	N	96%	1%	1%	1%	1%	0%	N	0.099	N	0.541	9000	N
460 11 Roanoke St	From: NCL Christiansburg Town of Christiansburg (Maint: 60) To: SR 114 Peppers Ferry Rd	2.01	8300	G	96%	1%	1%	1%	1%	0%	F	0.099	F	0.541	9000	G
Bus 460 N Franklin St	From: US 460 Town of Christiansburg (Maint: 60) To: WCL Christiansburg	0.97	21000	F	98%	0%	0%	0%	0%	0%	C	0.098	F	0.634	21000	F
Bus 460 N Franklin St	From: US 460 Town of Christiansburg (Maint: 60) To: WCL Christiansburg	0.66	22000	G	98%	0%	1%	0%	0%	0%	F	NA			23000	G
Bus 460 N Franklin St	From: WCL Christiansburg Town of Christiansburg (Maint: 60) To: WCL Christiansburg	0.18	19000	G								0.090	N	0.582	19000	G
Bus 460 N Franklin St	From: SR 111 Cambria St Town of Christiansburg (Maint: 60) To: Depot St	0.11	35000	G	98%	0%	1%	0%	0%	0%	F	0.090	F	0.582	38000	G
Bus 460 N Franklin St	From: SR 111 Cambria St Town of Christiansburg To: Depot St	1.38	25000	F	98%	0%	1%	0%	0%	0%	C	0.088	F	0.56	27000	F



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							2Axle	3+Axle	1Trail	2Trail						
Bus 460 N Franklin St	From: Depot St Town of Christiansburg To: US 11, SR 8 Main St	0.28	10000	G	98%	0%	1%	0%	0%	0%	F	0.087	F	0.505	11000	G
Bus 460 11 E Main St	From: US 11 Main St Town of Christiansburg To: Roanoke St	0.12	7900	G	97%	0%	1%	1%	0%	0%	F	0.084	F	0.601	8500	G
Bus 460 11 Roanoke St	From: E Main St Town of Christiansburg To: Craig St	0.11	11000	G	97%	0%	1%	1%	0%	0%	F	0.087	F	0.517	11000	G
Bus 460 11 Roanoke St	From: SR 111 Depot St Town of Christiansburg To: US 460	0.98	11000	G	97%	0%	1%	1%	0%	0%	F	0.099	F	0.561	12000	G
Bus 460 11 Roanoke St	From: US 460 Town of Christiansburg To: US 460	0.86	15000	G	98%	0%	1%	0%	1%	0%	C	0.103	F	0.604	16000	G

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						2Axle	3+Axle	1Trail	2Trail							
<b>Town of Christiansburg</b>																
(F60) Flanagan Dr	0.04	280	R			From: 0.76 MW of SCL To: SR 8 Riner Rd					NA			NA		01/30/2008
(F62) Falling Branch	0.41	80	R			From: Dead End To: 60-640					NA			NA		01/08/2008
(F63) Brammer Lane	0.24	190	R			From: Houchins Rd To: Dead End					NA			NA		01/08/2008
(F856)	0.13	NA				From: Dead End To: Bus US 460 , Railroad St					NA			NA		
(1) Falling Branch Rd	0.46	40	G	99%	0%	From: 60-640 JB-154 SCL Christiansburg To: US 11 Roanoke St				F	NA			40	G	2009
(3500)	0.14	2600	G	99%	0%	From: 60-666 JB-154 WCL Christiansburg To: SR 8 W Main Street				F	0.112	F	0.604	2800	G	2009
(3501) S Franklin St	1.21	5400	G	98%	1%	From: ECL Christiansburg To: Alleghany St				C	0.103	F	0.702	5900	G	2009
(3501) S Franklin St	0.57	5600	G	98%	1%	From: Alleghany St To: US 460 Main St				F	0.090	F	0.615	6100	G	2009
(3502) Phlegar St	0.08	4100	G	99%	0%	From: US 11 Main St To: First St				F	0.097	F	0.63	4400	G	2009
(3502) First St	0.40	4800	G	99%	0%	From: Phlegar St To: US 460 Roanoke St				C	0.096	F	0.569	5200	G	2009
(3503) Depot St	0.12	8500	G	98%	1%	From: SR 8 App. Loc. To: College St				F	0.091	F	0.601	9200	G	2009
(3503) Depot St	0.14	11000	G	97%	1%	From: College St To: US 11 Radford St				F	0.095	F	0.639	12000	G	2009
(3503) Depot St	0.41	13000	G	97%	1%	From: US 11 Radford St To: C7US 460				C	0.091	F	0.543	14000	G	2009
(3503) Depot St	0.91	2700	G	97%	1%	From: C7US 460 To: SR 111 Depot St; Cambria St				F	0.104	F	0.586	2900	G	2009
(3504) Park St	0.87	1800	G	99%	0%	From: E Main St To: SR 111 Depot St				C	0.104	F	0.509	2000	G	2009
(3505) E Main St	0.17	1900	G	99%	0%	From: Roanoke St To: Park St				F	0.101	F	0.531	2100	G	2009
(3505) Main St	0.60	NA				From: Park St To: SR 111 Roanoke St					NA			NA		
(3506) Ellett Rd	0.39	2400	G	98%	0%	From: SR 111 Cambria St To: NCL Christiansburg				C	0.1	F	0.571	2600	G	2009
Alleghany St		2100	G			From: Canaan Rd To: Miller St					0.111	F		2300	G	2009
Cambria St		5400	F	95%	1%	From: Bus US 460 Ramp To: Bus US 460 N Franklin St				C	0.1	F	0.541	5400	F	2009

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						2Axle	3+Axle	1Trail	2Trail							
<b><u>Town of Christiansburg</u></b>																
Church St		450	G			From: Plum St				0.11	F			490	G	2009
						To: King St										
Clearview Dr		2300	G			From: Ragan Drive				0.107	F			2300	G	2009
						To: Wimmer Street										
Electric Way		410	G			From: Fisher St				0.187	F			450	G	2009
						To: Simmons Rd										
Independence Blvd		4700	F	97%	1%	1%	0%	0%	0%	C	0.125	F	0.806	4700	F	2009
Merrimac Rd		3600	F	95%	1%	2%	2%	1%	0%	C	0.094	F	0.626	3600	F	2009
North Dr		260	G			From: Depot Street				0.118	F			260	G	2009
						To: E. Main Street										
Republic Rd		650	G			From: Lester Street				0.109	F			650	G	2009
						To: Park Street										
Ridge Rd		80	G			From: Overhill Rd				0.122	F			80	G	2009
						To: Dogwood Terrace										
Summitridge Rd		660	G			From: Briarwood Drive				0.095	F			660	G	2009
						To: S. Franklin Street										